

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled DETERMINING SIGNAL TRANSDUCTION PATHWAYS, the specification of which

- ☐ is attached hereto.
- ☒ was filed on November 1, 1999 as Application Serial Number 09/431,964 and was amended on (if applicable).
- ☐ was filed under the Patent Cooperation Treaty (PCT) and accorded International Application No. _____, filed _____, and amended on _____ (if any).

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We hereby acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application No.	Date of Filing (day month year)	Date of Issue (day month year)	Priority Claimed Under 35 U.S.C. §119

Prior United States Provisional Application(s)

We hereby claim priority benefits under Title 35, United States Code, §119(e)(1) of any U.S. provisional application listed below:

U.S. Provisional Application No.	Date of Filing (day month year)	Priority Claimed Under 35 U.S.C. §119(e)(1)
60/106,912	03 November 1998	Yes

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing (Day, Month, Year)	Status — Patented, Pending, Abandoned

ALTHERR, Robert F.	31,810	ONG, Patricia E.	34,373	PATE, J. J.	42,065
BANNER, Donald W.	17,037	MOSCHEIT, Dale H.	19,090	PATHAK, Ajay S.	38,266
BANNER, Mark T.	29,888	IWANICKI, John P.	34,628	PAYNE, Stephen S.	35,316
BANNER, Pamela I.	33,644	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BODNER, Jordan	42,338	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BUROW, Scott A.	42,373	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
CALLAHAN, James V.	20,095	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CHANG, Steve S.	42,402	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
COHAN, Gregory J.	40,959	MAGOON, Sumeet	43,769	ROLLINS, John F.	38,013
COOPERMAN, Marc S.	34,143	MALONE, Dale A.	32,155	SCHAD, Steve P.	32,550
CURTIN, Joseph P.	34,571	MANNAVA, Ashok K.	44,301	SHANAHAN, Michael H.	24,438
DAWSON, John R.	39,504	McDERMOTT, Peter D.	29,411	SHIPLEY, Charles W.	28,042
DEMOOR, Laura J.	39,654	McKEE, Christopher L.	32,384	SKERPON, Joseph M.	29,864
EVANS, Thomas L.	35,805	McKIE, Edward F.	17,335	SPAR, Elizabeth	45,123
FEDORCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	STOCKLEY, D. J.	34,257
FISHER, Daniel E.	34,162	MEECE, Timothy C.	38,553	VAN ES, J. Pieter	37,746
FISHER, William J.	32,133	MEEKER, Frederic M.	35,282	WILLIAMS, Kathleen M.	34,380
GLEMBOCKI, Christopher R.	38,800	MILLER, Charles L.	43,805	WITCOFF, Sheldon W.	17,399
HANLON, Brian E.	40,449	MITRIUS, Janice V.	43,808	WOLFF, Kevin A.	42,233
HART, Robert P.	35,184	MORENO, Christopher P.	38,566	WOLFFE, Franklin D.	19,724
HEMMENDINGER, Lisa M.	42,653	NELSON, Jon O.	24,566	WOLFFE, Susan A.	33,568
HILLMAN, Lisa	43,673	NIEGOWSKI, James A.	28,331	WRIGHT, Bradley C.	38,061

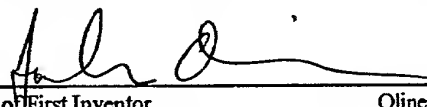
Affymetrix Attorneys

Vern Norviel	32,483	Philip McGarrigle	31,395	Rosemary Celli	42,397
Wei Zhou	44,419	Ellen Gonzales	44,128		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.	Customer Number: 22907
1001 G Street, N.W., 11th Floor	Tel: (202) 508-9100
Washington, D.C. 20001-4597	Fax: (202) 508-9299

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature  Date 12/15/99

Full Name of First Inventor Oliner Jonathan D.

Residence Newbury, California Citizenship United States

Post Office Address 959 Golden Crest Avenue, Newbury, California 91320

Signature _____ Date _____

Full Name of Second Inventor Hubbell Earl

Residence Los Angeles, California Citizenship United States

Post Office Address 416 South Genesee, Los Angeles 90036

ALTHERR, Robert F.	31,810	HONG, Patricia E.	34,373	PATEL, Binal J.	42,065
BANNER, Donald W.	17,037	CHEIT, Dale H.	19,090	PATHAN, Sy S.	38,266
BANNER, Mark T.	29,888	ANICKI, John P.	34,628	PAYNE, John S.	35,316
BANNER, Pamela I.	33,644	JACKSON, Thomas H.	29,808	PETERSON, Thomas L.	30,969
BECKETT, William W.	18,262	KAGAN, Sarah A.	32,141	POTENZA, Joseph M.	28,175
BODNER, Jordan	42,338	KATZ, Robert S.	36,402	PRATT, Thomas K.	37,210
BUROW, Scott A.	42,373	KLEIN, William J.	43,719	RENK, Christopher J.	33,761
CALLAHAN, James V.	20,095	KRAUSE, Joseph P.	32,578	RESIS, Robert H.	32,168
CHANG, Steve S.	42,402	LINEK, Ernest V.	29,822	RIVARD, Paul M.	43,446
COHAN, Gregory J.	40,959	MAGOON, Sumeet	43,769	ROLLINS, John F.	38,013
COOPERMAN, Marc S.	34,143	MALONE, Dale A.	32,155	SCHAD, Steve P.	32,550
CURTIN, Joseph P.	34,571	MANNAVA, Ashok K.	44,301	SHANAHAN, Michael H.	24,438
DAWSON, John R.	39,504	McDERMOTT, Peter D.	29,411	SHIFLEY, Charles W.	28,042
DEMOOR, Laura J.	39,654	McKEE, Christopher L.	32,384	SKERPON, Joseph M.	29,864
EVANS, Thomas L.	35,805	McKIE, Edward F.	17,335	SPAR, Elizabeth	45,123
FEDORCHKO, Gary D.	35,509	MEDLOCK, Nina L.	29,673	STOCKLEY, D. J.	34,257
FISHER, Daniel E.	34,162	MEECE, Timothy C.	38,553	VAN ES, J. Pieter	37,746
FISHER, William J.	32,133	MEEKER, Frederic M.	35,282	WILLIAMS, Kathleen M.	34,380
GLEMBECKI, Christopher R.	38,800	MILLER, Charles L.	43,805	WITCOFF, Sheldon W.	17,399
HANLON, Brian E.	40,449	MITRIUS, Janice V.	43,808	WOLFF, Kevin A.	42,233
HART, Robert P.	35,184	MORENO, Christopher P.	38,566	WOLFFE, Franklin D.	19,724
HEMMENDINGER, Lisa M.	42,653	NELSON, Jon O.	24,566	WOLFFE, Susan A.	33,568
HILLMAN, Lisa	43,673	NIEGOWSKI, James A.	28,331	WRIGHT, Bradley C.	38,061

Affymetrix Attorneys

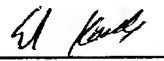
Vern Norviel	32,483	Philip McGarrigle	31,395	Rosemary Celli	42,397
Wei Zhou	44,419	Ellen Gonzales	44,128		

All correspondence and telephone communications should be addressed to:

Banner & Witcoff, Ltd.	Customer Number: 22907
1001 G Street, N.W., 11th Floor	Tel: (202) 508-9100
Washington, D.C. 20001-4597	Fax: (202) 508-9299

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature			Date		
Full Name of First Inventor	Oliner	Jonathan	D.		
	Family Name	First Given Name	Second Given Name		
Residence	Newbury, California		Citizenship	United States	
Post Office Address	959 Golden Crest Avenue, Newbury, California 91320				

Signature			Date	1/5/2000	
Full Name of Second Inventor	Hubbell	Earl			
	Family Name	First Given Name	Second Given Name		
Residence	Los Angeles, California		Citizenship	United States	
Post Office Address	416 South Genesee, Los Angeles 90036				